

3-20-1975

Washington University Record, March 20, 1975

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Recommended Citation

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WU Record

Published for the Washington University Community

March 20, 1975

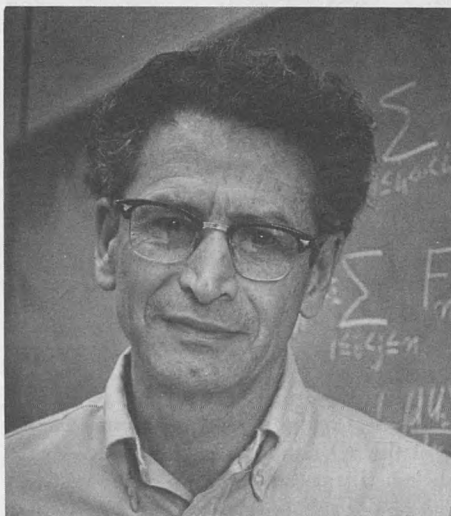
Two-Day Symposium To Honor Retiring Physicist Eugene Feenberg

By Dorothy Brockhoff

Today and tomorrow over 100 eminent physicists in this country will be on campus to pay homage to Washington University's Professor Eugene Feenberg, who will retire soon as Wayman Crow Professor of Physics after having been a member of the faculty here for almost 30 years. Formally, there will be speeches and papers on many topics during the two-day, public Eugene Feenberg Symposium on the "Concepts and Methods in Microscopic Physics"; but a dominant, informal theme will center on Professor Feenberg's profound and far-reaching impact on the field of theoretical physics. Feenberg's pioneering work to enhance our understanding of the fundamental nature of matter is expressed with economy and elegance in some 80 papers and three books which he has written over the years since he earned his Ph.D. at Harvard in 1933.

Of his research Feenberg said recently, "It is difficult to say anything sensible about my work in a few words." Struggling to do just that Physics Department Chairman Richard Norberg and two of Feenberg's former students, Professors John Clark and James G. Miller, compressed his life's research into three broad areas. He was a pioneer in nuclear physics who did much to increase understanding of nuclear structure. Later, he turned his attention to what physicists call perturbation theory, a way of calculating reasonable approximations to nature, which cannot be done with mathematical precision. During the last decade and a half he has concentrated on the theory of quantum fluids with particular emphasis on liquid helium. Out of this work he has evolved what physicists call "the method of correlated basis functions." This theory can be applied to the behavior of matter, ranging from bizarre substances such as liquid helium to awesome astro-physical objects known as neutron stars.

Outside the realm of pure science,



(Photo by Herb Weitman)

Feenberg is revered as a gifted teacher and guide to several generations of research students. He also is notoriously modest and unassuming. Asked what qualities an individual needs to be a theorist, Feenberg said matter-of-factly, "One needs a good deal of mathematics. You have to be willing to learn the fundamentals and try any new things that you can think of. One does a lot of scribbling and throws away most of it." He added, "The theorist isn't bothered by the perversity of matter, but he's up against his own limitations."

This Feenberg trait of modesty surfaces now and again in talking about him with his colleagues. Another quality, compassion, is characteristic of Feenberg. One Physics Department professor recalls that he once proposed to Feenberg that they put on display in the Pfeiffer (physics) Library all the crackpot literature they receive regularly from persons attempting to disprove Einstein's theories. Feenberg objected, pointing out that it is never fair to hold people up to ridicule.

Feenberg also has a delightful sense of humor and the ability to laugh at himself. He chuckled quietly when reminded of some Rube Goldberg inventions he is rumored to have thought of while walking two miles to the University each day. One of his most inge-

(Continued on page 3)

Senate Approves Policy on Academic Freedom, Tenure

The WU Faculty Senate approved an amended "Policy on Academic Freedom, Responsibility and Tenure" at its March 7 meeting. The proposed policy is the culmination of six years of deliberation by the University's Senate, AAUP chapter, Administration, and Board of Trustees.

The University's present policy on academic freedom and tenure dates back to 1953, when the ten page "Statement of Policy on Appointments, Promotions and Tenure" was adopted by the Board. Some of the major differences between the present and proposed policies are as follows:

1) The 1953 policy does not contain an explicit statement of faculty responsibilities. Section II of the proposed policy outlines faculty responsibilities in four areas: teaching and research, students, courses, and the academic community.

2) The present policy differs from the proposed policy on what may constitute adequate cause for the termination of a faculty member's appointment. The proposed policy, which applies to both tenured and non-tenured faculty, contains a more explicit range of possible grounds for dismissal, and puts the burden of proving that the allegations are adequate cause for dismissal on the University.

3) The present policy permits the termination of tenured faculty if the termination is caused by the reduction or discontinuance of an academic program for financial exigency, but under the new policy a faculty member so terminated may challenge the University to prove that the financial exigency is bona fide.

4) The 1953 policy contained no formal grievance procedures. The proposed policy contains formal procedures in the event of an alleged violation of a faculty member's academic freedom or the dismissal of a faculty member for adequate cause.

(Continued on page 2)

St. Louis Soccer Stars Bring Night Life to Francis Field for First Time in 40 Years



The crowd above might lead one to believe the game is not being played at Francis Field; but it is a St. Louis Stars' game of a few years ago at the WU stadium, which both the Stars and the Battling Bears now hope to see filled with the installation of lights.

On April 20 the St. Louis Soccer Stars will play the Dallas Tornados in a night game at Francis Field—the first night game since the 1930's when the stadium was host to several "big name" football teams.

Cost of the installation of lights and improvements in seating at the stadium will be borne by the Stars. Renovation costs by the Stars are an estimated \$100,000, which will be in lieu of two years' rental fees for the Stars. They will play their 12 home games this year at Francis Field. The Stars will pay the utility bills for their games and all costs incurred in use of the field, including upkeep, security and parking.

The Stars have launched a promotional campaign to seek capacity crowds for their games—a reasonable goal in an area with many thousands of soccer fans. At the same time, the WU athletic department will be seeking ways to make full and imaginative use of a stadium noted in recent years for feisty, winning football teams, but also consistently underwhelming crowds.

Don McCright, WU head football coach, has contacted the Battling Bears' seven, home 1975 opponents to see whether they would be willing to play Saturday night football. He has no definite commitments because his formal proposals to the teams were sent only two weeks ago; but cold, economic logic is on his side. A visiting team could

save about \$800 by arriving in St. Louis Saturday morning for a game that night—instead of the usual Friday arrivals, which are scheduled to allow sufficient warm-up practices prior to early Saturday afternoon games.

Saturday night football should result in larger crowds, especially if area high school students are encouraged to attend games as part of an overall recruitment effort, McCright said. "When we play Saturday afternoon, we compete with area high school games and televised collegiate football as well as regional games such as those at the University of Missouri," he pointed out. Increased attendance is a somewhat better prospect in 1976. The Bears will attempt to develop regional rivalries next year, already having scheduled the University of Missouri at Rolla and Principia College.

Vice Chancellor Robert Virgil said that the Bears' own soccer team—which last year posted a pleasantly surprising 10-3 record—may play some night games. He also pointed out that large track meets, a number of intramural games, and various student activities such as concerts could be held at Francis Field. "Precisely what benefits the University derives from the lights will depend mainly on the efforts and ingenuity of the Athletic Department Staff," he added.

Senate

(Continued from page 1)

5) The proposed policy, unlike the present policy, specifically extends many protections in the broad area of academic freedom to non-tenured faculty.

The revision of the 1953 document was begun in 1969 by the University chapter of the American Association of University Professors, and it has been under active consideration by the Senate Council since the end of 1971. Law professor Dale Swihart, former head of the campus AAUP chapter, said that the initial revision was not begun as an investigation of tenure, academic freedom, or academic responsibility, though these questions did arise later on. "The major issue was the lack of procedures and standing committees. As far as tenure was concerned, we concluded that while there were pros and cons to the present system, the advantages outweighed the disadvantages when compared with other alternatives, such as the contract system or collective bargaining." He added that the proposed 29-page document generally follows national AAUP standards.

The proposed policy states that "The faculty member's primary responsibility to his subject is to seek and to state the truth as he sees it" and to devote "his energies to developing and improving his scholarly competence." The policy also says that if insoluble conflicts arise between a faculty member's obligations as a citizen or moral agent and his academic obligations, he may resign or take a leave of absence without unfavorably affecting his tenure status.

The new policy requires the faculty to treat students in an "even-handed manner," create an atmosphere conducive to learning, and not misuse authority.

In the teaching of courses, the faculty is responsible for not persistently introducing irrelevant material into a course or failing to present the course's main subject matter as approved by the faculty.

On the matter of adequate cause for termination, the present policy, which applies only to tenured faculty, states, "A person may lose tenure by reason of gross neglect of duty, gross incompetence, moral turpitude, or conviction of treason." Section VI, subsection B-3 of the new proposal, which applies to all faculty members, states that "adequate cause may be academic incompetence, neglect of duty, a serious violation of the faculty member's responsibilities as outlined in Section II of this policy, or admission or conviction of a serious violation of the criminal code, but the University bears the burden of

(Continued on page 3)

WU Dormitory Room Rates Remain at 1974-75 Levels

WU's single room rate for the 1975-1976 school year will remain at the 1974-1975 single room rate of \$830, and at the 1974-1975 double room rate of \$730.

"As a result of detailed analysis of the budget for the whole housing operation it is possible to keep our rates the same and also increase housing's contribution toward its share of the University's central operating budget," said Robert Virgil, WU vice chancellor.

While savings have been effected through budget pruning in many areas, no single area of the operation has been cut significantly, he pointed out. For example, the position of head resident has been eliminated for next year, but every dorm floor in the high rise will have a residential advisor resulting in a small, net increase in the residential staff rather than in a reduction.

Rates at Millbrook Apartments (the on-campus housing facility for fulltime graduate students and faculty members) will be raised 10%, effective July 1, to offset rate increases imposed over the past two years by the utility companies. There was no increase in rent last year, although utility rates jumped 8%. Utilities are included in the rental fee.

Rental rates for the 70 units remain very competitive with comparable area housing, Virgil said. "The amount of debt service and pro-rated cost of Millbrook Apartments make it almost impossible to avoid a deficit. Even with the rate increase and effective management, the projected deficit next year will be about \$60,000 or one-third of the total cost of the apartments' operation," he added.

An increase of 6% in the board fee will go into effect next fall in response to a 15% rise in the consumer price index of food costs and a 6-7% rise in labor costs as defined in the new food service contracts.

George Burris, director of Food Service, stated that the increase is necessary to keep food quality at its present level. "We are actually expanding food services rather than cutting back in the face of increased costs."

The **WU Record** is published weekly during the academic year by the Office of Information, director, Roger Signor; editor, Kathy Pearson; contributing editors, Dorothy Brockhoff, King McElroy; calendar editor, Anne Hallett. Photographs by Herb Weitman, Rick Levine and Gail Cissna. Address all communications to the editor, Box 1142.

New Trustees Announced



Liberman



Tao

Lee M. Liberman and William K. Y. Tao, both of St. Louis, have been named members of the WU Board of Trustees.

Liberman, president and chief executive officer of Laclede Gas Co., was born in Salt Lake City, Utah. He joined the company in 1945 as a chemist after graduation from Yale University and active duty with the U.S. Army Air Corps. He was named president and chief operating officer of the company in 1970, and assumed the additional responsibility of chief executive officer in 1974. His board memberships include Laclede Gas Co., Permaneer Corp., Boatman's National Bank, American Gas Association, the Regional Commerce and Growth Association, and the Arts and Education Council. He is chairman of the board of Jewish Hospital and is a member of Civic Progress, Inc. He also serves on the executive committee of the United Way, and is immediate past president of Family and Children's Service of St. Louis.

Tao, founder and head of William Tao & Associates, Consulting Engineers, was born in Peking, China. He received his undergraduate and graduate degrees from WU, where he has taught since 1955. He currently holds the title of affiliated professor in the Schools of Engineering and Architecture. Tao was awarded an alumni citation in 1971 in recognition of his engineering excellence. He is national chairman of the Energy Advisory Committee of the Illuminating Engineering Society and consultant to the General Services Administration and Federal Energy Administration. He was recently selected "Electrical Man of the Year" by the St. Louis Electrical Board of Trade in recognition of his outstanding contribution to the electrical industry and to the community.

The stone embedded in the west wall of Brookings Hall near the Busch Hall archway is a Spanish-American War memorial. It was sent to the University in 1898 by Army Maj. John Stafford, who had resigned as WU cadet trainer, to enlist in the war. It is a stone from Fort LaPunta, southern fortification of Havana Harbor.

Senate

(Continued from page 2)

proving that the alleged reason is adequate cause for termination."

The proposed policy creates two new faculty grievance committees, the Advisory Committee on Tenure and Academic Freedom, and the Academic Freedom and Tenure Hearing Committee. The Advisory Committee is composed of the five at-large members of the Senate Council. It is designed to resolve issues by informal means, and failing that, to determine whether a formal hearing is necessary. The Hearing Committee, made up of seven regular and seven alternate members who are full-time tenured faculty members, conducts formal hearings according to procedures outlined in Section VIII of the proposed policy.

Other issues covered in the proposed policy are faculty self-discipline, tenure, appointments, and review of status.

The document will now be reviewed by a Board of Trustees ad hoc committee before going to the full Board for final approval. William H. Webster, U.S. Circuit Judge for the Eighth Circuit, will be committee chairman. Other committee members are: George Pake, vice president, Xerox Corp.; Kendall Perkins, former corporate vice president of engineering and research, McDonnell Douglas Corp.; John P. MacCarthy, executive vice president, St. Louis Union Trust Co.; and John Hayward, general partner, Reinholdt and Gardner.

Feenberg

(Continued from page 1)

nious inspirations, according to legend, is a special type of man's raincoat which rainwear manufacturers have overlooked. He proposed that such a garment be designed with a gutter running round the hem to catch the water and a downspout in the back for the raindrops to splash out of instead of down the wearer's trousers.

The life of Feenberg will not change perceptibly when he becomes Wayman Crow Professor of Physics Emeritus. He will no longer teach regular classes, but his colleague Clark estimates that he has about 20 more years of fruitful research ahead of him. To finance this work, the team of Feenberg and Clark has applied for another National Science Foundation grant. Says Clark, "he was and will continue to be a shining light in the department."

Note: Eight sessions for the Feenberg Symposium will be held in Crow and Louderman halls, March 20-21; call ext. 4654 for details.

Calendar

March 20-26

THURSDAY, MARCH 20

10 a.m. Two-Day Eugene Feenberg Symposium on the "Concepts and Methods in Microscopic Physics" honoring Prof. Feenberg, Wayman Crow Professor of Physics, for his almost 30 years of service as a member of the Physics Department faculty. Crow & Louderman halls. Call Eve Ness, ext. 4654, for details.

2:30 p.m. Department of Mechanical Engineering and Department of Chemical Engineering Seminar, "Suspension Rheology," Professor Howard Brenner, Department of Chemical Engineering, Carnegie-Mellon U. 100 Cupples II.

4 p.m. Department of Chemistry and Department of Physics Seminar (Feenberg Symposium), "Quantized Vortices in Molecular Collisions," Professor Joseph Hirschfelder, Director of the Theoretical Chemistry Institute, U. of Wisconsin. 458 Louderman.

8:30 p.m. School of Fine Arts Lecture with Slides, "Discussions of Own Work," Kaare Rafoss and Donald Lewellen, painters, New York City. 112 Wilson.

FRIDAY, MARCH 21

8 p.m. Reading, with Jakov Lind, novelist and poet, reading from his own works including "Soul of Wood," "Landscape in Concrete," "Ergo," "Counting My Steps," and "Numbers," sponsored by the Academic Committee, Office of Campus Programming and Hillel House. Brown Lounge.

SATURDAY, MARCH 22

10 a.m.-3 p.m. Special Educational Services Center Life Planning Workshops, led by Special Educational Services staff. 268 Umrath.

8-11 p.m. Johnny Appleseed Day, sponsored by the Campus "Y," with music, films, refreshments. Umrath.

MONDAY, MARCH 24

4 p.m. Department of Economics Seminar, "The Evaluation of Dysfunctional Wage Structure: The Israeli Experience," Professor Irvin Sobel, Florida State U. Prince II.

5 p.m. Computing Facilities Seminar, "Introduction to ITF and STAT/Basic," Ronald Lee, WU School of Business. Prince. Call 863-0100, ext. 3138 to register. (also Tuesday-Friday)

TUESDAY, MARCH 25

3:30 p.m. Department of Chemical Engineering Seminar, "Heat Conduction in Metal Filled Polymers," Professor David Hansen, chairman, Department of Chemical Engineering, Rensselaer Polytechnic Institute. 100 Cupples II.

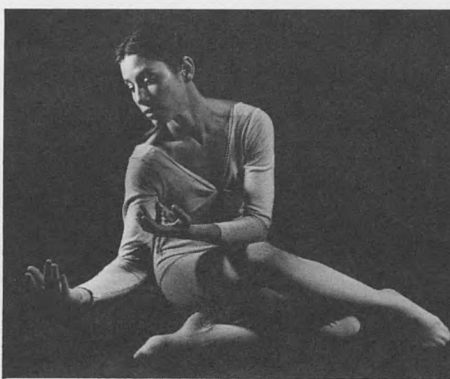
8:30 p.m. School of Architecture and School of Fine Arts Lecture, "The Design Experience," Charles Eames, architect and designer. Steinberg Hall.

WEDNESDAY, MARCH 26

11 a.m. Wednesday Assembly Series, "Can the World Economy Survive?" Paul McCracken, senior consultant to the Secretary of the Treasury. Graham Chapel.

2:30 p.m. School of Business and Public Administration, Graduate School of Business Administration, & Department of Economics Seminar, "Managing Economic Policy," by Paul McCracken. 204 Prince.

4 p.m. School of Dental Medicine Graduation Exercises. Address by Dr. Alvin L. Morris, executive director, Association for Academic Health Centers. Graham Chapel.



Susan Eiler, an advanced ballet student of Michael Simms, will perform in "dance: For a Neon Kiss" which will premiere at the Edison Theatre Drama Studio March 22 and 23 as part of a four-day spring festival of the arts. For further information on the scheduled events call 862-9327.

4 p.m. Department of Physics Colloquium, "Environmental Processing of Ultrasonic Images," Professor B. Cohen, U. of Pittsburgh. 201 Crow.

PERFORMING ARTS

FRIDAY, MARCH 21

1:30 and 8 p.m. Drama, *The Merchant of Venice*, The National Shakespeare Company's production of William Shakespeare's comedy of revenge, redemption and mercy. General admission \$4.50; WU faculty/staff \$3.50; students \$2. Edison Theatre.

SATURDAY, MARCH 22

6:30 p.m. Dance, "dance: For a Neon Kiss," an original work by Mekela Mesekela, African poet. General admission \$2; students \$1. Edison Theatre Drama Studio. (also 2 p.m. Sunday, March 23)

8 p.m. Drama, *The Two Gentlemen of Verona*, The National Shakespeare Company's production of one of William Shakespeare's earliest comedies. General admission \$4.50; WU faculty/staff \$3.50; students \$2. Edison Theatre.

MONDAY, MARCH 24

8 p.m. Poetry and Music, "Duff's Poetry Series," featuring Arthur Brown and Donald Finkel, WU associate professor of English and poet-in-residence, reading from their own poetry; also St. Louis Symphony members Muriel Moebius and Irene Breslaw playing Mozart's "Duo for Violin and Viola." General admission \$3; students \$2. Steinberg Auditorium.

FILMS

THURSDAY, MARCH 20

12 noon. Outing Club and Office of Campus Programming Film, "Miner's Ridge," a Sierra Club documentary on Washington's North Cascades Mountain Wilderness. Mallinckrodt Center Gallery.

FRIDAY, MARCH 21

7:30 and 10:30 p.m. WU Filmboard Series, Lindsay Anderson's "O Lucky Man" with Malcolm McDowell. Admission \$1. Wohl Center Line D.

8 p.m. Committee on Comparative Literature Film, Marlowe's "Doctor Faustus." Admission \$1. Steinberg Hall.

SATURDAY, MARCH 22

2 and 9:30 p.m. WU Filmboard Series, "O Lucky Man"; 5 and 7:30 p.m. "Thief Who Came To Dinner." Admission \$1 for one feature, \$1.50 for both. Brown Hall Theatre.

SUNDAY, MARCH 23

2 p.m. WU Filmboard Series, two Marx Brothers classics, "Monkey Business"; 3:30 p.m. "Duck Soup." Admission 50 cents for one feature, 75 cents for both. Brown Hall Theatre.

TUESDAY, MARCH 25

7:30 p.m. WU Filmboard Series, "Monkey Business"; 9 p.m. "Duck Soup." Admission \$1 for one feature, \$1.50 for both. Brown Hall Theatre.

WEDNESDAY, MARCH 26

7:30 and 9 p.m. WU Filmboard Series, Ingmar Bergman's "The Virgin Spring." Admission \$1. Brown Hall Theatre.

MUSIC

FRIDAY, MARCH 21

7:30 p.m. Concert, "Bluegrass and Jazz," featuring guitarists Lyle Harris, Bob Abrams and Bob Brozman with vocalist Marilyn Krawll. General admission \$2; students \$1. Brown Hall Theatre.

8 p.m. Concert, WU Choir and Madrigal Singers, with Orland Johnson, director, sponsored by the Department of Music. Graham Chapel.

SATURDAY, MARCH 22

12 midnight. Midnight Concert Series, featuring Maria Pinckney, harpist, and Michael Luechtefeld, classical guitarist, as soloists and as part of an ensemble playing rarely performed contemporary music. Mallinckrodt Center Gallery.

SUNDAY, MARCH 23

4 p.m. Graduate Baroque Violin and Viola da Gamba Recital by Elizabeth Phillips, sponsored by the Department of Music. Brown Lounge.

7:30 p.m. Baroque Orchestra Concert, with William Schatzkammer, conductor, University City Symphony, in a program including Telemann's "Concerto for Two Violas and Strings"; Vivaldi's "Concerto for Piccolo and Strings"; Telemann's "Concerto for Oboe and Strings"; and Vivaldi's "Concerto Grosso for Two Violas and Strings." Graham Chapel.

MONDAY, MARCH 24

8 p.m. Concert, "A Musical Offering," chamber music by members of the St. Louis Symphony in a program including Beethoven's "Sonata No. 4 in D major, Op. 102, No. 2" and Walton's "Facade" with Jay Willoughby and Rosalyn Wykes as narrators.

EXHIBITIONS

"A la Pintura," an exhibition of work by the American artist Robert Motherwell, including trial proofs for the book of his prints in addition to works of art on loan from The Nancy Singer Gallery, The Greenberg Gallery, Mr. and Mrs. Jerry Leavitt and the St. Louis Art Museum. Steinberg Hall, lower gallery. Monday-Friday 9 a.m.-5 p.m.; Saturdays 10 a.m.-4 p.m.; Sundays 1-5 p.m.

International Women's Day Exhibit, featuring pictures of feminists from around the world and different historic periods. Olin Library, level three. Monday-Thursday 8 a.m.-midnight; Friday 8 a.m.-10 p.m.; Saturday 9 a.m.-10 p.m.; Sunday 11 a.m.-midnight.

SPORTS

FRIDAY, MARCH 21

3:30 p.m. Tennis, WU vs. Concordia. At home.

4 p.m. Indoor Track, Florissant Valley Scrimmage. At Florissant Valley.